AlterPath™ KVM/netPlus

Enterprise KVM over IP Solutions

The AlterPath™ KVM/netPlus family of enterprise-class KVM over IP switches is designed for local and remote server administration with centralized management and advanced security features. The AlterPath KVM/netPlus is the industry's first KVM solution to offer Cyclades Adaptive KVM™ technology (patent pending) that combines Microsoft® Remote Desktop Protocol (RDP) functionality with KVM over IP access in a single device.

The Adaptive KVM feature allows users to manage most administrative tasks using the efficient RDP protocol, delivering seamless performance, even over low-bandwidth connections. The AlterPath KVM/netPlus can easily switch from RDP sessions to KVM over IP sessions when Windows-based servers are down or become disconnected from the IT production network. The AlterPath KVM/netPlus provides a cost-effective and simplified management solution over low-bandwidth connections.

Fully integrated security features include server-based authentication and support for RADIUS, TACACS+, LDAP, Kerberos, NTLM, NIS and Active Directory. In addition, the AlterPath KVM/netPlus supports user access control lists (ACLs) per port and user access logging. This allows IT managers and administrators to manage their servers with greater control and peace of mind.

The AlterPath KVM/netPlus can also be combined with the AlterPath Manager, Cyclades out-of-band infrastructure (OOBI) manager, to provide users with a consolidated view of all KVM ports, centralized security and data logging. This reduces network maintenance costs and provides easier and faster provisioning of the OOBI.

Available in 6 models, providing 1, 2 or 4 digital channel access to 16 or 32 servers in 1U of rack space, the AlterPath KVM/netPlus helps streamline remote access to servers throughout the IT infrastructure and includes the scalability and security features to accomplish this objective. The AlterPath KVM/netPlus reduces operational costs and risks while increasing IT personnel efficiency and productivity.
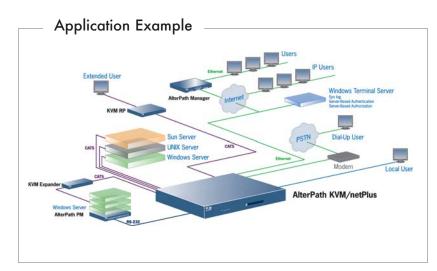
Applications:
- KVM switching and control
- Local and remote server administration
- RDP sessions to provide enhanced remote performance – even over low-bandwidth connections
- Simultaneous local and remote access to servers and workstations for multiple users
- Power and temperature management

Benefits:
- Global access anytime (KVM over IP)
- Simplified management
- Reduced IT operational costs and risks
- Advanced security features with centralized authentication and 128-bit private key encryption
- Simple and inexpensive CAT5-based cabling
- Enterprise-level scalability with centralized management
- Future investment protection

Application Example

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AlterPath KVM/netPlus Specifications

Hardware

CPU:	MPC859P (Power PC) @133 MHz
Memory:	128 MB DIMM SDRAM/256 MB compact flash
Interfaces:	1 Ethernet 10/100 BT on RJ-45 1 RS-232 console on RJ-45 2 RS-232 auxiliary ports on RJ-45 16 or 32 RJ-45 KVM ports (CAT5-based) 1 VGA HD15 female and 2 MiniDIN6 (PS/2) user interface 1 RJ-45 user interface (CAT5-based) 2 PCMCIA slots (16-bit PC Card)
Power:	100 V/240 V, 50/60 Hz, 0.78 A/0.46 A
Form Factor:	1U rack mountable (rack mount kits included)
Operating Temperature:	32°F to 122°F (0°C to 50°C)
Storage Temperature:	–40°F to 185°F (–40°C to 85°C)
Humidity:	5% to 90% noncondensing
Dimensions: (WxDxH)	**KVM/netPlus** 17 x 15 x 1.75 in (43.18 x 38.1x 4.45 cm) **KVM Expander** 12 x 2.5 x 1.53 in (30.48 x 6.35 x 3.87 cm) **KVM Terminator** 1.24 x 2.60 x 0.85 in (3.15 x 6.60 x 2.16 cm) **KVM RP** 9 x 9 x 1.75 in (22.86 x 22.86 x 4.45 cm)
Certification:	CSA, FCC, CE, EN60950, VCCI, C-Tick

Part Number	Model	Description
ATP1601	AlterPath KVM/netPlus 1601	16-port KVM over IP switch, 3 users, 2 local and 1 remote user over the network
ATP1602	AlterPath KVM/netPlus 1602	16-port KVM over IP switch, 4 users, 2 local and 2 remote user over the network
ATP1604	AlterPath KVM/netPlus 1604	16-port KVM over IP switch, 6 users, 2 local and 4 remote user over the network
ATP3201	AlterPath KVM/netPlus 3201	32-port KVM over IP switch, 3 users, 2 local and 1 remote user over the network
ATP3202	AlterPath KVM/netPlus 3202	32-port KVM over IP switch, 4 users, 2 local and 2 remote user over the network
ATP3204	AlterPath KVM/netPlus 3204	32-port KVM over IP switch, 6 users, 2 local and 4 remote user over the network
ATP4610	AlterPath KVM Terminator PC PS/2	Server-side unit, PC PS/2
ATP4630	AlterPath KVM Terminator PC USB	Server-side unit, PC USB
ATP4620	AlterPath KVM Terminator Sun USB	Server-side unit, Sun USB
ATP4710	AlterPath KVM RP	Remote user interface unit
ATP4208	AlterPath KVM Expander 8	8-port KVM expander module
ATP4216	AlterPath KVM Expander 16	16-port KVM expander module

Features

Accessibility
- 16 or 32 server ports
- 2 local users and 1, or 2 or 4 remote users over IP network simultaneously

Security
- Local, RADIUS, TACACS+, LDAP, NTLM, NIS, Active Directory and Kerberos authentication
- Token-based strong authentication (RSA SecurID)
- Local backup user authentication
- 3DES and RC4 encryption (KVM over IP viewer only)
- User ACLs per port
- User access logging
- System event syslog

Server Management
- Access through Web management interface (WMI) or on-screen display (OSD)
- Port name assignment
- Simultaneous access on the same port (port sharing for local and remote users)
- Cascading with centralized port management (access and configuration)
- Programmable cycling of screens
- Maximum resolution 1,600 x 1,200 @ 60 Hz (local stations only); 1,280 x 1,024 @ 60 Hz (KVM over IP)
- Temperature monitoring
- Optional integrated power management with the AlterPath PM
- Optional 8- and 16-port expander modules

System Management
- WMI for configuration

Cabling
- CAT5-based terminators
- Compatible with PC PS/2, PC USB and Sun USB keyboard/mouse interfaces
- CAT5, CAT5e, CAT6 and CAT7 UTP cabling
- Cable length up to 500 ft (152.4 m) distance between terminator and KVM switch

Upgrades
- Upgrades available on FTP site
- Flash upgradeable
- TFTP support for network boot

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